

## Cyanogen Bromide (CNBr) Cleavage

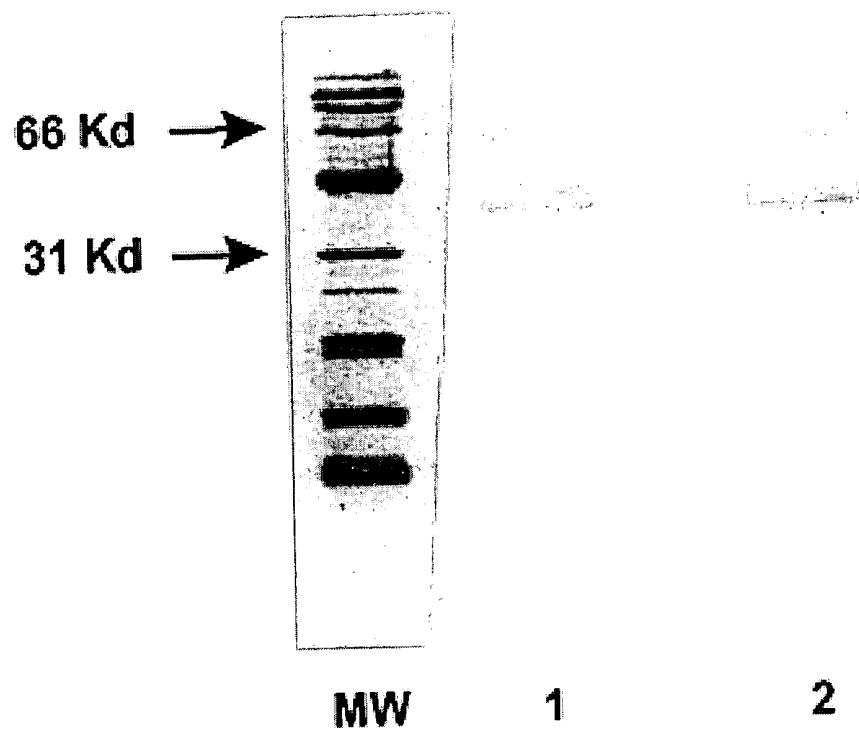


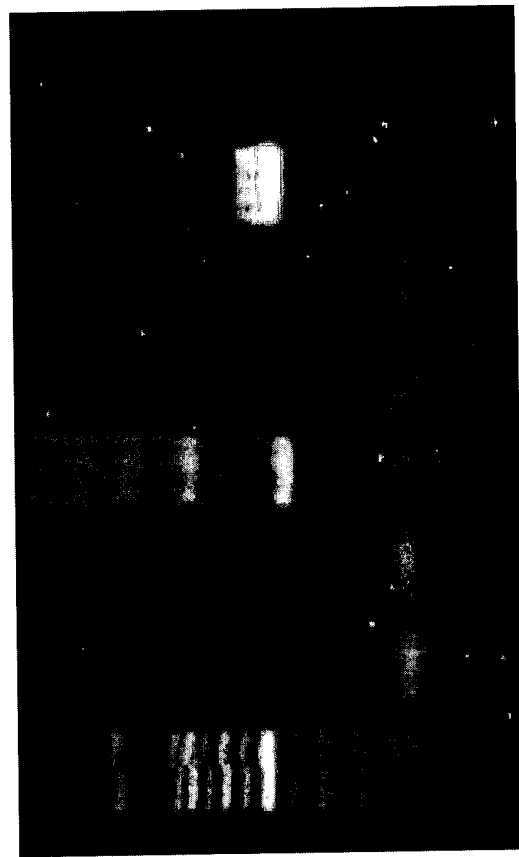
Figure 1

09065738.092704

TO2260" 82453660

A

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B

1 2 3 4 5 6 7 8 9 10 11 12

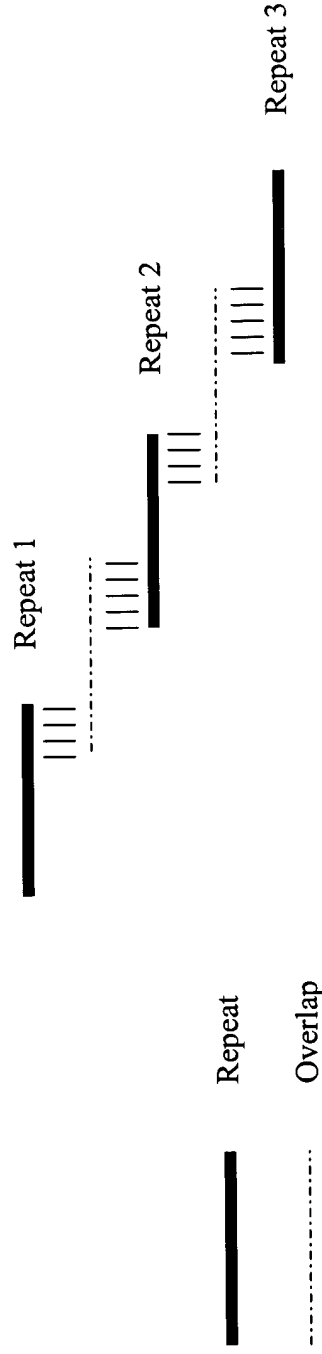


$\beta$ -Tubulin



Figure 2

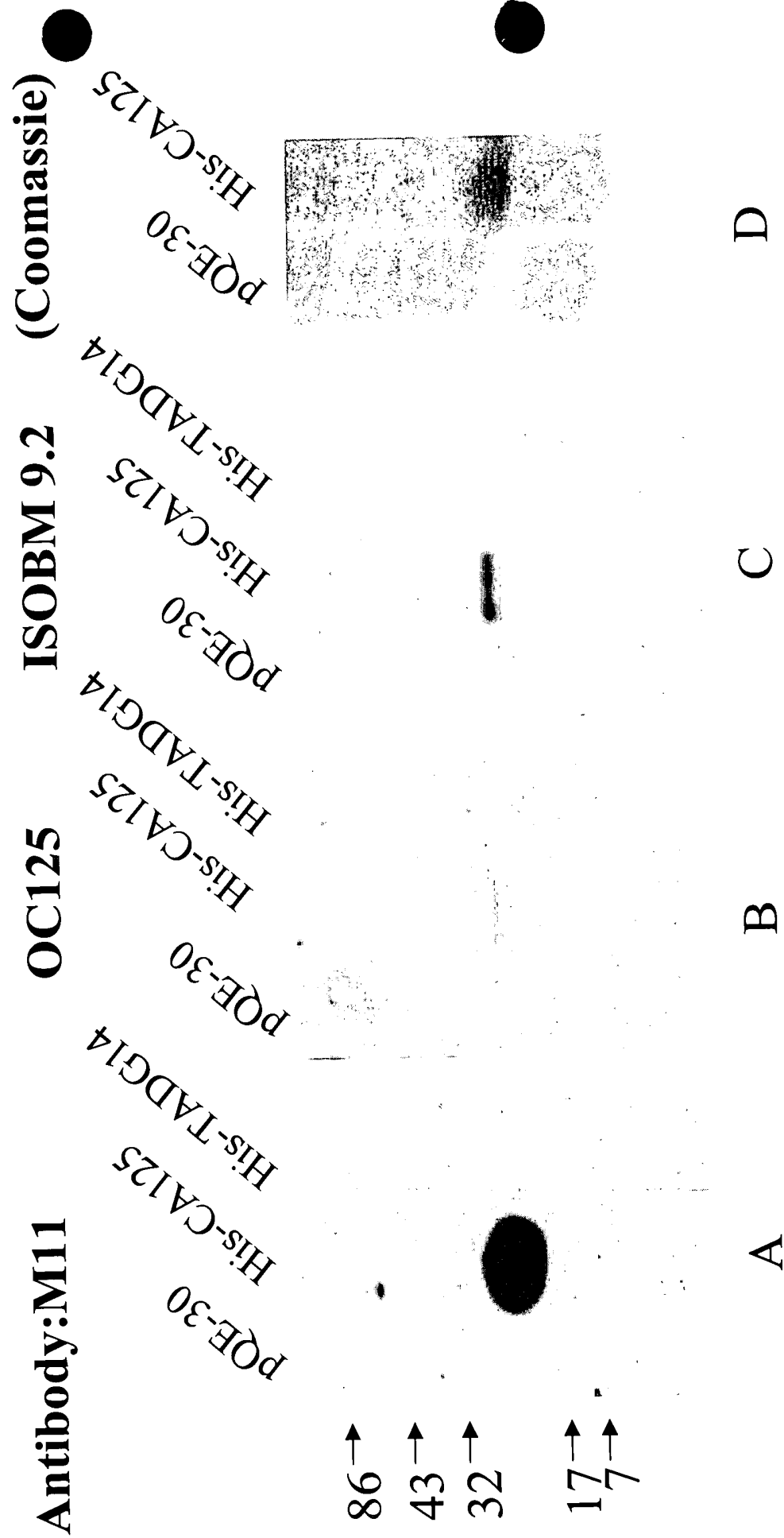
# A Strategy for Placing Repeat Sequences in Contiguous Order Using Overlap Sequence Alignment



(SEQ ID NO: 158)	1	ATVPFVVPFTLNFTITNLQYEDMRHPGSRKFNAATERELQGLLKPLFRNSSLEYLXSGCRLTLRLPEKNGAATGMDAICTHRPDPEDLGLDRERLYWELSNLTNGIQELGPYTLDRNSLYVNGFTHRSSVAPTSTPGTSTVDLGTSGTSPSSLPGHT	156
157	AAGPLLMPFTLNFTITNLQYEDMRHPGSRKFNTMESVLQGLLKPLPKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLNRQOLYWELSQLTNDIEELGPYTLDRNSLYVNGFTHQSSVPTTSTPGTSTVDLRTSGTSPSSLSPTIM	314	
315	AAGPLLVPFTLNFTITNLQYEDMRHPGSRKFNTTERRVLQGLLGPVFKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLNRERLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHRTSVPTSTPGTSTVDLGTSGTSPFLSPSPA	470	
471	TAGPLLVLFTLNFTITNLKYEEDMRHPGSRKFNTTERRVLQTLGLGPMFKNTSVGLLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRQOLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHWIPVPTSTPGTSTVDLG. SGTSPSSLPSPT	625	
626	AAGPLLVPFTLNFTITNLQYEDMRHPGSRKFNTTERRVLQGLLGPVFKNTSVGLLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGVDRQOLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHQTSAPNTSTPGTSTVDLGTSGTSPSSLPSPT	781	
(SEQ ID NO: 159)	1	SAGPLLVPFTLNFTITNLQYEDMRHPGSRKFNTTERRVLQGLLGPVFKNTSVGLLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLNRQOLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHRSSVAPTSTPGTSTVDLGTSGTSPSSLPGHT	156
157	TAVPLLVPFTLNFTITNLQYEDMRHPGSRKFNTTERRVLQGLLGPVFKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRQOLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHQSSVPTTSTPGTSTVDLGTSGTSPSPSPPT	312	
313	TAGPLLVPFTLNFTITNLQYEDMRHPGSRKFNAATERELQGLLKPLPKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRERLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHQSSVPTTSTPGTSTVWATTTGTPSSFPGHT	468	
469	EPGPLLVPFTLNFTITNLHYEENMQHPGSRKFNTTERRVLQGLLGPVFKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRERLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHQSSVPTTSTPGTSTVWATTTGTPSSFPGHT	624	
625	EPGPLLVPFTLNFTITNLHYEENMQHPGSRKFNTTERRVLQGLLGPVFKNTSVGPVLYSGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRERLYWELSQLTNGIKELGPYTLDRNSLYVNGFTHQSSVPTTSTPGTSTVWATTTGTPSSLPGHT	780	
(SEQ ID NO: 160)	1	TAGPLLVPFTLNFTITNLQYEDMRHPGSRKFNTERVLOGLLPLKPLFRNSSLEYLGGCRLTLRLPEKNGAATGMDAICTHRPDPKSPGLDRERLYWELSQLTNSITELGPYTLDRDLSLYVNGFNPRSSVPTTSTPGTSTVHLATSGTSPSSLPGHT	156
157	APVPLLVPFTLNFTITDLHYEENMQHPGSRKFNTERVLOGLLPLKPLFKSTSVGPVLYSGCRLTLRLPEKHGAATGMDAICTLRDPTGPGDLDRERLYWELSQLTNSVTELGPTYLDRDLSLYVNGFTHRSSVPTTSTPGTSAVHLETSGTPASLPGHT	312	
313	APGPLLVPFTLNFTITNLQYEDMRHPGSRKFSTTERRVLQGLLGPVFKNTSVSSLYSGCRLTLRLPEKNGAATRVDAVCTHRPDPKSPGLDRERLYWELSQLTNGIKELGPYTLDRHLSLYVNGFTHQSSMTTTRTPTDSTTMHLATSRTPASLPGHT	468	
469	TASPLLVLFTLNFTITNQRYEENMHHPGSRKFNTERVLOGLLRLPVFKNTSVGPVLYSGCRLTLRLPKDGAATKVDAICTYRPDPKSPGLDRERLYWELSQLTNSITELGPYTDQRDLSLYVNGFTHRSSVPTTSTPGTSAVHLETSGTPASLPGHT	624	
(SEQ ID NO: 161)	1	ATGPVPLLVPFTLNFTITNLQYEDMRHPGSRKFNTTERRVLQGLLMPVFKNTSVSSLYSGCRLTLRLPEKNGAATRVDAVCTHRPDPKSPGLDRERLYWELSQLTNGIKELGPYTLDRHLSLYVNGFTHQSSMTTTRTPTDSTTMHLATSRTPASLPGHT	156
157	TASPLLVLFTLNFTITNLRYEENMHHPGSRKFNTERVLOGLLRLPVFKNTSVGPVLYSGCRLTLRLPKDGAATKVDAICTYRPDPKSPGLDRERLYWELSQLTNSITELGPYTDQRDLSLYVNGFTHQSSVPTTSTPGTPTVDLGTSGTPVKSPGSPS	312	
313	AASPLLVLFTLNFTITNLRYEENMHHPGSRKFNTERVLOGLLRLSVFKNTSVGPVLYSGCRLTLRLPEKNGATGMDAICTHHDPDPKSPRLDRERLYWELSQLTNGIKELGPYTLDRHLYVNGFTHRSSVPTTSTPGTPTVYLGAASKTPASIFGPS	468	

Figure 3 (SEQ ID NOS: 158, 159, 160, and 161)

Country	Year	Population	Area	Population Density
Algeria	1960	10,000,000	2,381,472	42
Algeria	1970	12,000,000	2,381,472	50
Algeria	1980	14,000,000	2,381,472	59
Algeria	1990	16,000,000	2,381,472	67
Algeria	2000	18,000,000	2,381,472	76
Algeria	2010	20,000,000	2,381,472	84
Algeria	2020	22,000,000	2,381,472	92
Algeria	2030	24,000,000	2,381,472	101
Algeria	2040	26,000,000	2,381,472	109
Algeria	2050	28,000,000	2,381,472	118
Algeria	2060	30,000,000	2,381,472	126
Algeria	2070	32,000,000	2,381,472	134
Algeria	2080	34,000,000	2,381,472	143
Algeria	2090	36,000,000	2,381,472	151
Algeria	2100	38,000,000	2,381,472	160
Algeria	2110	40,000,000	2,381,472	168
Algeria	2120	42,000,000	2,381,472	177
Algeria	2130	44,000,000	2,381,472	185
Algeria	2140	46,000,000	2,381,472	194
Algeria	2150	48,000,000	2,381,472	202
Algeria	2160	50,000,000	2,381,472	211
Algeria	2170	52,000,000	2,381,472	219
Algeria	2180	54,000,000	2,381,472	228
Algeria	2190	56,000,000	2,381,472	236
Algeria	2200	58,000,000	2,381,472	245
Algeria	2210	60,000,000	2,381,472	253
Algeria	2220	62,000,000	2,381,472	262
Algeria	2230	64,000,000	2,381,472	270
Algeria	2240	66,000,000	2,381,472	279
Algeria	2250	68,000,000	2,381,472	287
Algeria	2260	70,000,000	2,381,472	296
Algeria	2270	72,000,000	2,381,472	304
Algeria	2280	74,000,000	2,381,472	313
Algeria	2290	76,000,000	2,381,472	321
Algeria	2300	78,000,000	2,381,472	330
Algeria	2310	80,000,000	2,381,472	338
Algeria	2320	82,000,000	2,381,472	347
Algeria	2330	84,000,000	2,381,472	355
Algeria	2340	86,000,000	2,381,472	364
Algeria	2350	88,000,000	2,381,472	372
Algeria	2360	90,000,000	2,381,472	381
Algeria	2370	92,000,000	2,381,472	389
Algeria	2380	94,000,000	2,381,472	398
Algeria	2390	96,000,000	2,381,472	406
Algeria	2400	98,000,000	2,381,472	415
Algeria	2410	100,000,000	2,381,472	423
Algeria	2420	102,000,000	2,381,472	432
Algeria	2430	104,000,000	2,381,472	440
Algeria	2440	106,000,000	2,381,472	449
Algeria	2450	108,000,000	2,381,472	457
Algeria	2460	110,000,000	2,381,472	466
Algeria	2470	112,000,000	2,381,472	474
Algeria	2480	114,000,000	2,381,472	483
Algeria	2490	116,000,000	2,381,472	491
Algeria	2500	118,000,000	2,381,472	500
Algeria	2510	120,000,000	2,381,472	508
Algeria	2520	122,000,000	2,381,472	517
Algeria	2530	124,000,000	2,381,472	525
Algeria	2540	126,000,000	2,381,472	534
Algeria	2550	128,000,000	2,381,472	542
Algeria	2560	130,000,000	2,381,472	551



### Figure 4



132200 3225360

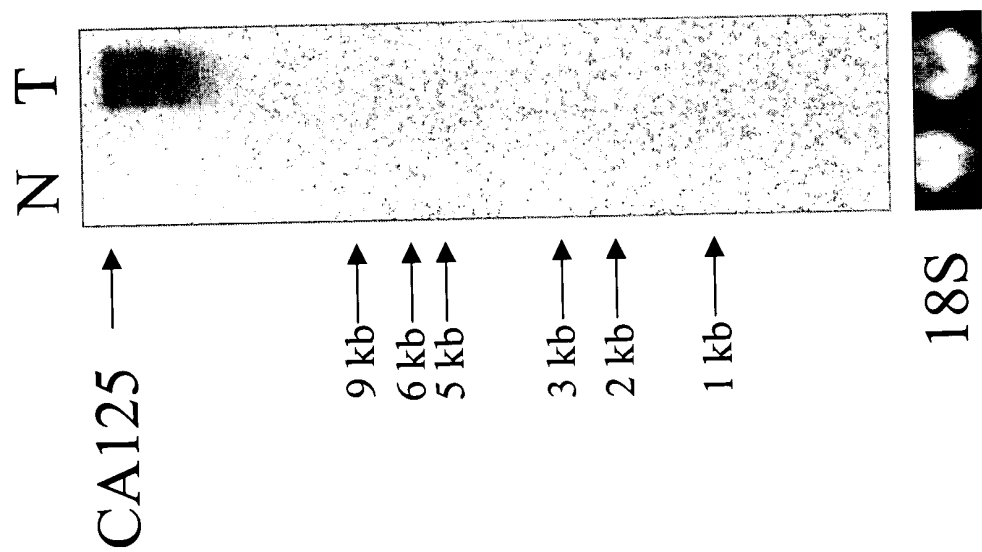


Figure 6

TC2263" 8C253660

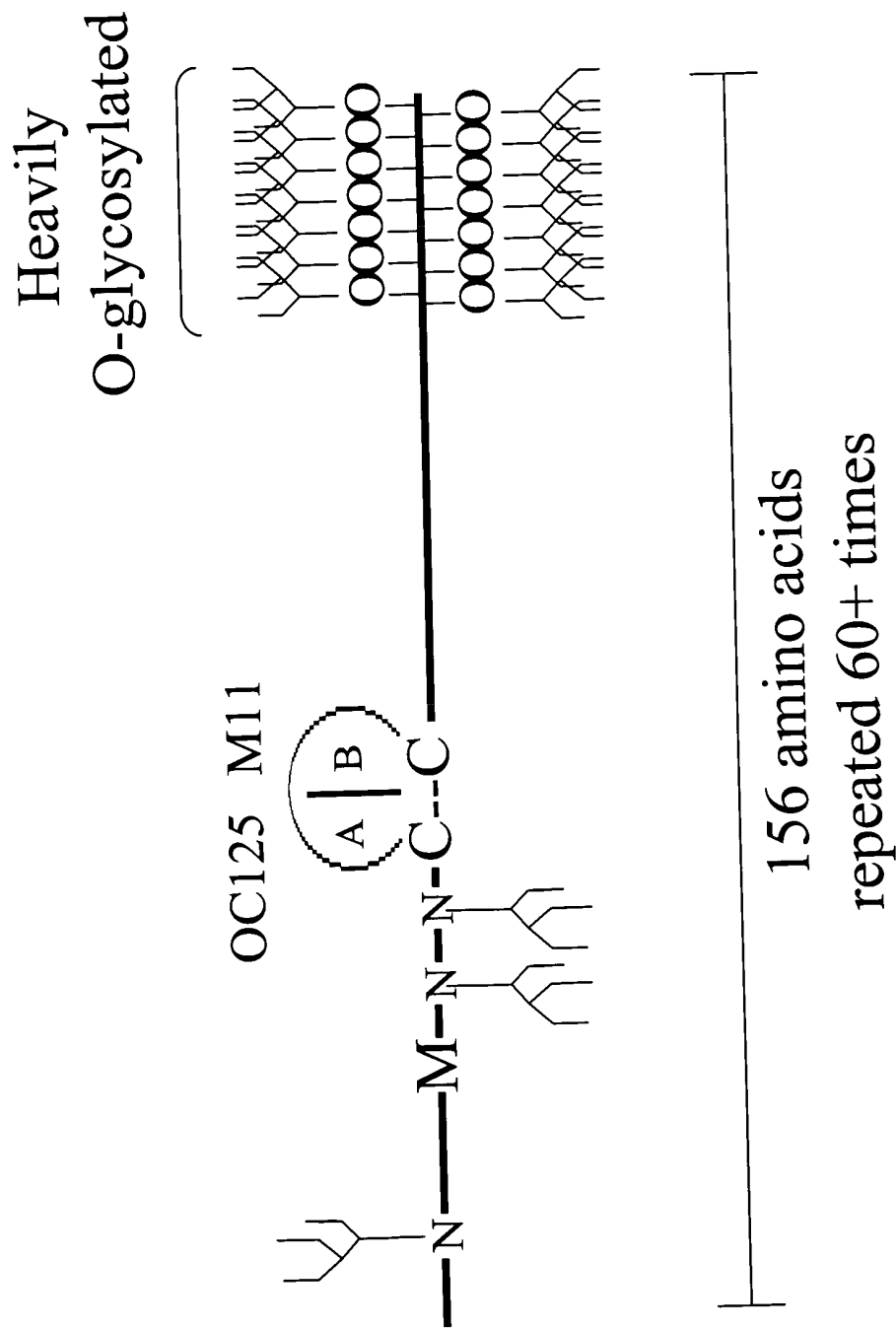


Figure 7A

10/2000 86259550

# Genomic Structure of a 156 Amino Acid Repeat Sequence of CA125

← ≈ 1900 bp →

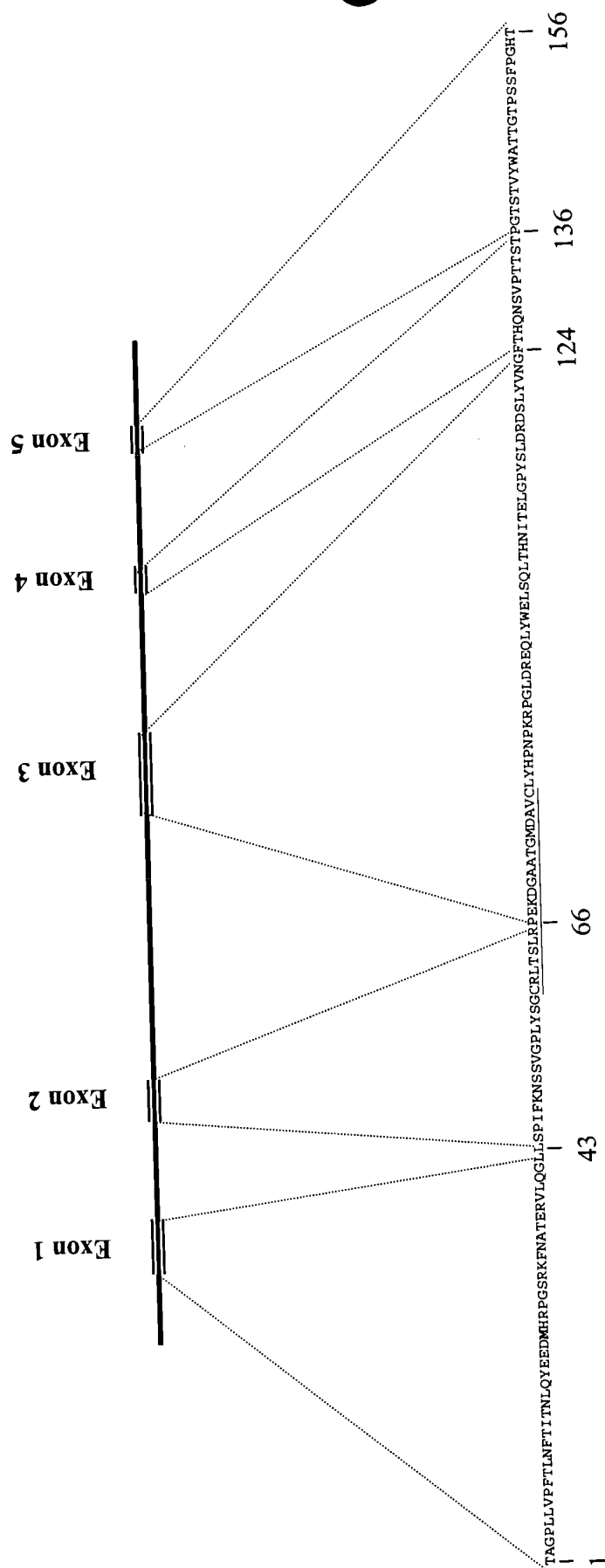


Figure 7B (SEQ ID NO: 163)



## Exon 1

1

42

ATVPFMVPFTLNFTITNLQYEEDMRHPGSRKFNTATERELQGL (SEQ ID NO: 164)  
TAVPLLVPFTLNFTITNLQYGEDMRHPGSRKFNTTERVLQGL (SEQ ID NO: 165)  
VPGPLLVPFTLNFTITNLQYEEAMRHPGSRKFNTTERVLQGL (SEQ ID NO: 166)  
APGPLLVPFTLNFTITNLQYEEDMRHPGSRKFSTTERVLQGL (SEQ ID NO: 167)  
APGPLLVPFTLNFTITNLQYEEDMRHPGSRKFNTTERVLQGL (SEQ ID NO: 168)  
APGPLLVPFTLNFTITNLQYEVDMRHPGSRKFNTTERVLQGL (SEQ ID NO: 169)  
SAGPLLVPFTLNFTITNLQYEEDMRHPGSRKFNTTERVLQGL (SEQ ID NO: 170)  
AAGPLLMPFTLNFTITNLQYEEDMRRTGSRKFNTMESVLQGL (SEQ ID NO: 171)  
TASPLLVLFTINCTITNLQYEEDMRRTGSRKFNTMESVLQGL (SEQ ID NO: 172)  
AAGPLLVPFTLNFTITNLQYGEDMGHPGSRKFNTTERVLQGL (SEQ ID NO: 173)  
TAGPLLIPFTLNFTITNLQYGEDMGHPGSRKFNTTERVLQGL (SEQ ID NO: 174)  
TAGPLLVPFTLNFTITNLQYGEDMGHPGSRKFNTTERVLQGL (SEQ ID NO: 175)  
TAGPLLVLFTLNFTITNLKYEEDMHRPGSRKFNTTERVLQTL (SEQ ID NO: 176)  
TAGPLLVPFTLNFTITNLQYEEDMHRPGSRKFNTATERVLQGL (SEQ ID NO: 177)  
TAGPLLVPFTLNFTITNLQYEEDMHRPGSRKFNTTERVLQGL (SEQ ID NO: 178)  
TAGPLLVPFTLNFTITNLQYEEDMHRPGSRKFNTTERVLQGL (SEQ ID NO: 179)  
APVPLLIPTLNFTITNLQYEEDMHRPGSRKFNTTERVLQGL (SEQ ID NO: 180)  
ATGPVLLPFTLNFTITNLQYEEDMHRPGSRKFNTTERVLQGL (SEQ ID NO: 181)  
AAGPLLVPFTLNFTITNLQYEEDMHHPGSRKFNTTERVLQGL (SEQ ID NO: 182)  
SAGPLLVPFTLNFTITNLQYEEDMHHPGSRKFNTTERVLQGL (SEQ ID NO: 183)  
TASPLLVLFTINFTITNQRYEENMHHPGSRKFNTTERVLQGL (SEQ ID NO: 184)  
TASPLLVLFTINFTITNLRYEENMHHPGSRKFNTTERVLQGL (SEQ ID NO: 185)  
EPGPLLIPTFNFTITNLHYEENMQHPGSRKFNTTERVLQGL (SEQ ID NO: 186)  
EPGPLLIPTFNFTITNLRYEENMQHPGSRKFNTTERVLQGL (SEQ ID NO: 187)  
APVPLLIPTLNFTITNLHYEENMQHPGSRKFNTTERVLQGL (SEQ ID NO: 188)  
APVPLLIPTLNFTITDLHYEENMQHPGSRKFNTTERVLQGL (SEQ ID NO: 189)  
AASPLLVLFTLNFTITNLRYEENMQHPGSRKFNTTERVLQGL (SEQ ID NO: 190)  
TAGPLLVPFTLNFTITNLKYEEDMHCPSGRKFNTTERVLQSL (SEQ ID NO: 191)  
AASHLLILFTLNFTITNLRYEENMW.PGSRKFNTTERVLQGL (SEQ ID NO: 192)  
TGVVSEEPFTLNFTINNLRYMADMGQPSGLKFNITDNVMKHL (SEQ ID NO: 193)  
AMGYHLKTLTNFTISNLQYSPDMGKSATFNSTEGVLQHLL (SEQ ID NO: 194)

0005730-000704

Figure 7C

## 43

65

LKPLFRNSSLEYLYSGCRLASLR (SEQ ID NO: 195)  
 LKPLFKNTSVSSLYSGCRLTLLR (SEQ ID NO: 196)  
 LKPLFKNTSVGPLYSGCRLTLLR (SEQ ID NO: 197)  
 LKPLFKSTSVGPLYSGCRLTLLR (SEQ ID NO: 198)  
 LKPLFKSTSVGPLYSSCRLTLLR (SEQ ID NO: 199)  
 LKPLFKNTSVGPLYSGCRLTSLR (SEQ ID NO: 200)  
 LGPIFKNTSVGPLYSGCRLTSLR (SEQ ID NO: 201)  
 LGPMFKNTSVGLLYSGCRLTLLR (SEQ ID NO: 202)  
 LGPMFKNTSVGPLYSGCRLTLLR (SEQ ID NO: 203)  
 LGPMFKNTSVGPLYSGCRLTSLR (SEQ ID NO: 204)  
 LGPLFKNSSVGPLYSGCRLISLR (SEQ ID NO: 205)  
 LGPLFKNSSVDPLYSGCRLTSLR (SEQ ID NO: 206)  
 LSPIFKNSSVGPLYSGCRLTSLR (SEQ ID NO: 207)  
 LSPIFKNTSVGPLYSGCRLTLLR (SEQ ID NO: 208)  
 LSPLFQRSSLGARYTGCRVIALR (SEQ ID NO: 209)  
 LRPLFKNTSVSSLYSGCRLTLLR (SEQ ID NO: 210)  
 LRPLFKNTSVGPLYSGSRLTLLR (SEQ ID NO: 211)  
 LRPLFKNTSIGPLYSSCRLTLLR (SEQ ID NO: 212)  
 LRPLFKSTSVGPLYSGCRLTLLR (SEQ ID NO: 213)  
 LRPVFKNTSVGLLYSGCRLTLLR (SEQ ID NO: 214)  
 LRPVFKNTSVGPLYSGCRLTLLR (SEQ ID NO: 215)  
 LRSLFKSTSVGPLYSGCRLTLLR (SEQ ID NO: 216)  
 LRSLFKSTSVGPLYSGCRLTSLR (SEQ ID NO: 217)  
 LTPLFKNTSVGPLYSGCRLTLLR (SEQ ID NO: 218)  
 LTPLFRTNTSVSSLYSGCRLTLLR (SEQ ID NO: 219)  
 LMPLFKNTSVSSLYSGCRLTLLR (SEQ ID NO: 220)  
 RPLFQKSSM.GPFYLGQCQLISLR (SEQ ID NO: 221)

[illegible]

Figure 7C

## Exon 3

66

123

PEKDSSAMAVDAICTHRPDPEDLGLDRERLYWELSNLTNGIQELGPYTLDRNSLYVNG (SEQ ID NO: 222)  
PEKDGAATGVDAICTHRLDPKSPGLNREQLYWELSKLTNDIEELGPYTLDRNSLYVNG (SEQ ID NO: 223)  
PKKDGAATGVDAICTHRLDPKSPGLNREQLYWELSKLTNDIEELGPYTLDRNSLYVNG (SEQ ID NO: 224)  
PEKDGATATGVDAICTHHPDPKSPRLDREQLYWELSQLTHNITELGHYALDNDSLFVNG (SEQ ID NO: 225)  
PEKDGEATGVDAICTHRPDPGTGPGLDREQLYLELSQLTHSITELGPYTLDRDSLYVNG (SEQ ID NO: 226)  
PEKDGAATGMDAVCLYHPNPKRPGLDREQLYWELSQLTHNITELGPYSLDRDSLYVNG (SEQ ID NO: 227)  
PEKDGAATGMDAVCLYHPNPKRPGLDREQLYCELSQLTHNITELGPYSLDRDSLYVNG (SEQ ID NO: 228)  
PEKDGAATRVDAACTYRDPKSPGLDREQLYWELSQLTHSITELGPYTLDRVSLYVNG (SEQ ID NO: 229)  
PKKDGAATKVDAICTYRDPKSPGLDREQLYWELSQLTHSITELGPYTQDRDSLYVNG (SEQ ID NO: 230)  
PKKDGAATKVDAICTYRDPKSPGLDREQLYWELSQLTHSITELGPYTQDRDSLYVNG (SEQ ID NO: 231)  
PEKDGAATRVDAVCTHRPDPKSPGLDRERLYWKLSQLTHGITELGPYTLDRHSLYVNG (SEQ ID NO: 232)  
PEKDGVATRVDAICTHRPDPKIPGLDRQQLYWELSQLTHSITELGPYTLDRDSLYVNG (SEQ ID NO: 233)  
SEKDGAATGVDAICIHHLDPKSPGLNRERLYWELSQLTNGIKELGPYTLDRNSLYVNG (SEQ ID NO: 234)  
SEKDGAATGVDAICTHRLDPKSPGLDREQLYWELSQLTNGIKELGPYTLDRNSLYVNG (SEQ ID NO: 235)  
SEKDGAATGVDAICTHRLDPKSPGVDRREQLYWELSQLTNGIKELGPYTLDRNSLYVNG (SEQ ID NO: 236)  
SEKDGAATGVDAICTHRVDPKSPGVDRREQLYWELSQLTNGIKELGPYTLDRNSLYVNG (SEQ ID NO: 237)  
SEKDGAATGVDAICTHHLNPQSPGLDREQLYWQLSQMTNGIKELGPYTLDRNSLYVNG (SEQ ID NO: 238)  
PEKRGAAATGVDITICTHRLDPLNPGLDREQLYWELSKLTRGIIELGPYLLDRGSLYVNG (SEQ ID NO: 239)  
PEKNGAATGMDAICSHRLDPKSPGLNREQLYWELSQLTHGITELGPYTLDRNSLYVNG (SEQ ID NO: 240)  
PEKNGAATGMDAICSHRLDPKSPGLDREQLYWELSQLTHGITELGPYTLDRNSLYVNG (SEQ ID NO: 241)  
PEKHGAATGVDAICTLRLDPTGPGLDREQLYWELSQLTNSVTELGPYTLDRDSLYVNG (SEQ ID NO: 242)  
PEKHGAATGVDAICTLRLDPTGPGLDREQLYWELSQLTNSITELGPYTLDRDSLYVNG (SEQ ID NO: 243)  
PEKHEAATGVDITICTHRVDPGPGLDREQLYWELSQLTNSITELGPYTLDRDSLYVNG (SEQ ID NO: 244)  
PEKQEAATGVDITICTHRVDPGPGLDREQLYWELSQLTNSITELGPYTLDRDSLYVNG (SEQ ID NO: 245)  
PEKQEAATGVDITICTHRVDPGPGLDREQLYWELSQLTNSITELGPYTLDRDSLYVDG (SEQ ID NO: 246)  
PEKDKAATRVDAICTHHPDPQSPGLNREQLYWELSQLTHGITELGPYTLDRDSLYVDG (SEQ ID NO: 247)  
SVKNGAETRVDLLCTYLQPLSGPGLPIKQVFHELSQQTHGITRLGPYSLDKDSLYLNG (SEQ ID NO: 248)  
PEKDGAATGVDTTCTYHPDPVGPGLDIQQLYWELSQLTHGVTQLGFYVLDRLDSLFING (SEQ ID NO: 249)

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Figure 7C

# Exon 4

124 135  
 FTHRSMPTTST (SEQ ID NO: 250)  
 FTHRSMPTTST (SEQ ID NO: 251)  
 FTHRSTVPTTST (SEQ ID NO: 252)  
 FTHRSTVPTTST (SEQ ID NO: 253)  
 FTHRSSVPTTST (SEQ ID NO: 254)  
 FTHRSSVPTTST (SEQ ID NO: 255)  
 FTHRSSVPTTST (SEQ ID NO: 256)  
 FTHRSSVPTTST (SEQ ID NO: 257)  
 FTHRSSVPTTST (SEQ ID NO: 258)  
 FTHRSSVPTTST (SEQ ID NO: 259)  
 FTHRNFVPTTST (SEQ ID NO: 260)  
 FTHRSSVPTTST (SEQ ID NO: 261)  
 FTHQSSVPTTST (SEQ ID NO: 262)  
 FTHQTSAPNTST (SEQ ID NO: 263)  
 FTHQTFAPNTST (SEQ ID NO: 264)  
 FTHQNSVPTTST (SEQ ID NO: 265)  
 FTHQSSMTTTRT (SEQ ID NO: 266)  
 FTHWIPVPTTST (SEQ ID NO: 267)  
 FTHWSPIPTTST (SEQ ID NO: 268)  
 FTHWSSGLTTST (SEQ ID NO: 269)  
 FHPRSSVPTTST (SEQ ID NO: 270)  
 FNRSSVPTTST (SEQ ID NO: 271)  
 FNPWSSVPTTST (SEQ ID NO: 272)  
 FTQRSSVPTTST (SEQ ID NO: 273)  
 FTQRSSVPTTST (SEQ ID NO: 274)  
 FTQRSSVPTTST (SEQ ID NO: 275)  
 YNEPGLDEPPTT (SEQ ID NO: 276)  
 YAPQNLIRGEY (SEQ ID NO: 277)

# Exon 5

136 156  
 PGTSTVDVGTSGTPSSSPSPT (SEQ ID NO: 278)  
 PGTSTVDLRTSGTPSSLSSPTIM (SEQ ID NO: 279)  
 PGTSTVDLGTSGTPFSLPSPA (SEQ ID NO: 280)  
 PGTSTVDLG.SGTPSSLPSPT (SEQ ID NO: 281)  
 PGTSTVDLG.SGTPSSLPSPT (SEQ ID NO: 282)  
 PGTSTVDLGTSGTPSSLPSPT (SEQ ID NO: 283)  
 PGTPTVDLGTSGTPVSKPGPS (SEQ ID NO: 284)  
 PWTSTVDLGTSGTPSPVPSPT (SEQ ID NO: 285)  
 PGTSTVYWATTGTPSSFPGHT (SEQ ID NO: 286)  
 PGTSTVHLATSGTPSSLPGHT (SEQ ID NO: 287)  
 PGTSTVHLATSGTPSPLPGHT (SEQ ID NO: 288)  
 PDTSTMHLATSRTPASLSGPT (SEQ ID NO: 289)  
 PGTSVHLETSGTPASLPGHT (SEQ ID NO: 290)  
 PGTSVHLETTGTPSSFPGHT (SEQ ID NO: 291)  
 PGTSTVHLGTSETPSSLPRPI (SEQ ID NO: 292)  
 PGTSIVNLGTSGIPPSLPETT (SEQ ID NO: 293)  
 PGTFTVQPETSETPSSLPGPT (SEQ ID NO: 294)  
 PGTPTVDLGTSGTPVSKPGPS (SEQ ID NO: 295)  
 PGTPTVYLGASKTPASIFGPS (SEQ ID NO: 296)  
 PKPATTFLLPPLSEATT..... (SEQ ID NO: 297)  
 QINFHIVNWNLSNPDPTSSEY (SEQ ID NO: 298)

Figure 7C

10226073255660

## Structure of Amino Terminal Domain

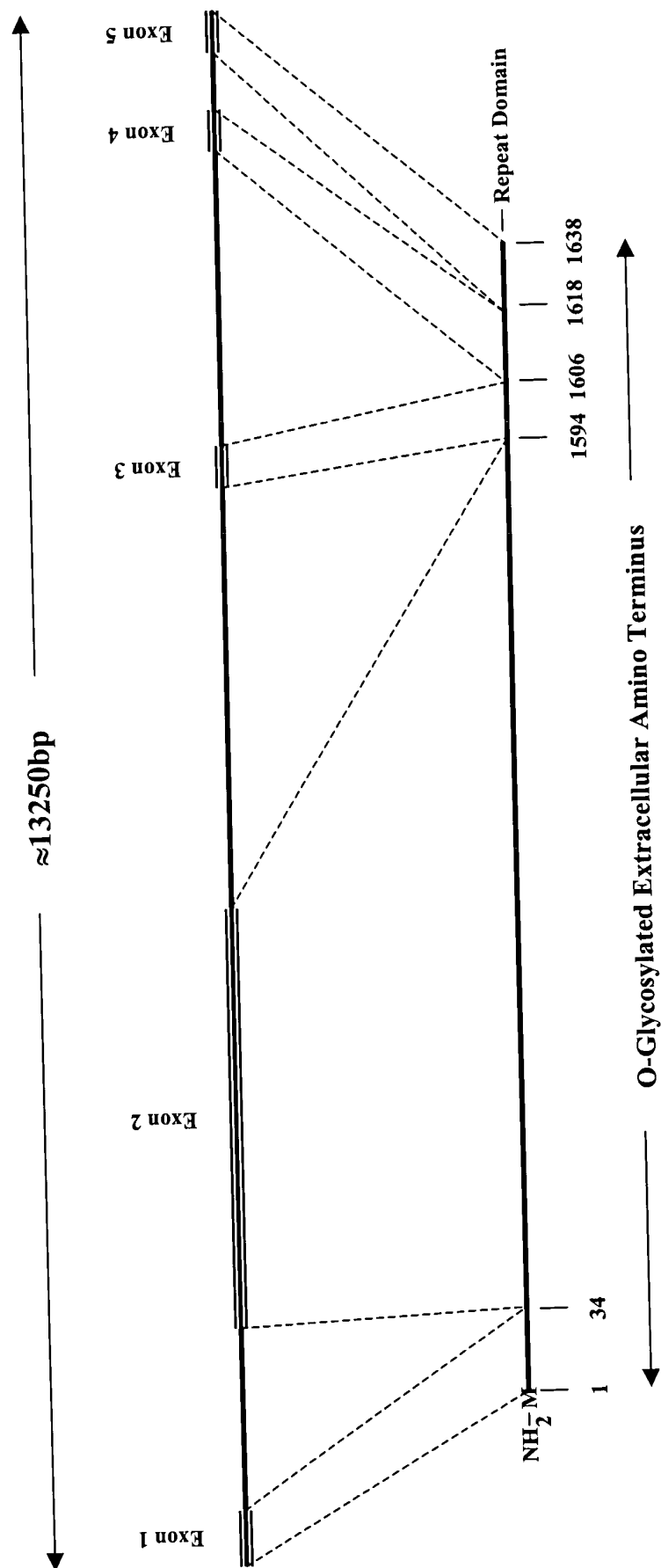


Figure 8A

1	MEHITKIPNE OOO KTTTALKTT	AAHRTGIRPV OO	KGQOTSTSPA OOO	SPKGLHTGGT x	KRMETITTTAL OOO	901	ISATFPVPE OO	SPHSEATAS OO	WVTHPAVTST OO	TVPRITPNYS OO x	HSEPDTPPSI OO
51	SRATLTISVY OO	TPILGLTPL O	NASRQMASTI OO	LTEMMITTPY OO		951	ATSPGAEATS OO	DFPTITVSPD OO	VPDWVTSQVT OO	SSGDTTSITI OO	PTLTSSGEP OO
101	VFPDVPETTS OO	SLATSLGAET OO	STALPRTTPS OO	VLNRESETTA OO	SLVSRSGAER OO	1001	ETTTSFITYS OO	ETHTSSAIP OO	LPVSPGASKM OO	LTSLVISSGT OO	DSTTFPTLT OO
151	SPVIQTLDVS OO	SSEPDTTASW OO	VIHPAETIPT OO	VSKTTPNFFH OO	SELDTVSSTA OO	1051	ETPYEPETTA OO	IQLIHPAETN OO	TMVPRTPPKF OO	SHSKSDTTLP OO	VAITSPGPEA OO
201	TSHGADVSSA OO	IPTNISPSL OO	DALTPLVTS OO	GTDTSTTFPT OO	LTKSPHETET OO	1101	SSAVSTTTIS OO	PDMSDLVTS x	VPSSGDTST OO	TFPILSETPY OO	EPETAT OO
251	RTTWLTHPAE OO	TSSTIPRTIP OO	NFSHESDAT OO	PSIATSPGAE OO	TSSAIPIMTV OO	1151	HPAETSTTVS OO	GTIPNFSHRG OO	SDTAPSMVTS OO	PGVDRSGVP OO	TTTIPPSIPG OO
301	SPGAEDLVTS OO	QVTSSGTRDN OO	MTIPTLLTSP OO	GEPKTIASLV OO	THPEAQTS OO	1201	VVTQVTS OO	TDISTAIPTL OO	TPSPGEPETT OO	ASSATHPGTQ OO	TGFTVPIRTV OO
351	IPTSTISPAV OO	SRLVTSMTVS OO	LAAKTSITNR OO	ALTNSPGEPA OO	TTVSLVTHPA OO	1251	PSSEPDIMAS OO	VVTHPPQTST OO	PVSRITSSFS OO	HSSPDAIPVM OO	ATSPRTEASS OO
401	QTSPTVPWTT OO	SIFFHKSDDT OO	TPSMITSHGA OO	ESSSAVPTPT OO	VSTEVPGVVV OO	1301	AVLTISPGA OO	PEMVTSQITS OO	SGAATSTTVP OO	TLHSPGMPE OO	TTALLSTHPR OO
451	PLVTSRRAVI OO	STTIPILILS OO	PGEPETTPSM OO	ATSHGEEASS OO	AIPPTVSPG OO	1351	TETSKTFPAS OO	TVFPQVSETT OO	ASLTIRPGAE OO	TSTALPTQTT OO	SSLFTLLVGT OO
501	VPGVVTSLVT OO	SSRAVTSITI OO	PILTFSLGEP OO	ETTPSMATSH OO	GTEAGSAVPT OO	1401	TSRVDLSPTA OO	SPGVSAKTAP OO	LSTHPGTETS OO	TMIPTSTLSL OO	GLLETTGLLA OO
551	VLPEVPGMVT OO	SLVASSRAVT OO	STTLPTLTL OO	PGEPEETTPSM OO	ATSHGAEASS OO	1451	TSSSAETSTS OO	TLTLTVSPAV OO	SGLSSASITT OO	DKPQTVTSWN OO	TETSPSVTSV OO
601	TVPTVSPPEV OO	GVVTSLVTS OO	SGVNSTSIPT OO	LILSPGELET OO	TPSMAISHGA OO	1501	GPPEFSRTVT OO	GTMTLLIPSE OO	MPTPPKTSHG OO	EGVSPTTILR OO	TTMVEATNLA OO
651	EASSAVPTPT OO	VSPGVSGVVT OO	PLVTS OO	STTIPILTL OO	SSEPEETTPSM OO	1551	TTGSSPTIVAK OO	TTTTFTNTLAG OO	SLFTPLTTPG OO	MSTLASESVT OO	SRTSYNHRSW OO
701	ATSHGVEASS OO	AVLTVSPEVP OO	GMVTSLVTS OO	RAVTSSTIPT OO	LTSSDEPET OO	1601	ISTTSSYNRR OO	YWTPTATSTPV OO	TSTFSPGIST OO	SSIPSSATAAT OO	VPFMVPTTLN OO
751	TTSLVTHSEA OO	KMISAIPTLA OO	VSPVQGLVT OO	SLVTSSGSET OO	SAFSNLTVAS OO	1651	FTITNLQYEE OO	DMRHGSRKRF x	NATERELQGL x	LKPLFRNSSL x	EYLYSGCRLA x
801	SQPETIDSWV OO	AHPGTEASSV OO	VPFLTIVSTGE OO	PFTNLSLVTH x	PAESSSTLPR OO	1701	SLRPEKDVSSA OO	MAVDAICTHR OO	DPEDLGLDR OO	ERLYWELSNL x	TNGIQE OO
851	TTSRFHSHEL OO	DTMPSTVTSP OO	EAESSSAIST OO	TISPPIGVVL OO	TSLVTSSGRD OO	1751	TLDRNSLYVN OO	GFTHRSSMPT OO	TSTPGTSTVD OO	VGTSCTPSSS OO	PSPT OO

102250" 3E253600

# Structure of Carboxy Terminal Domain

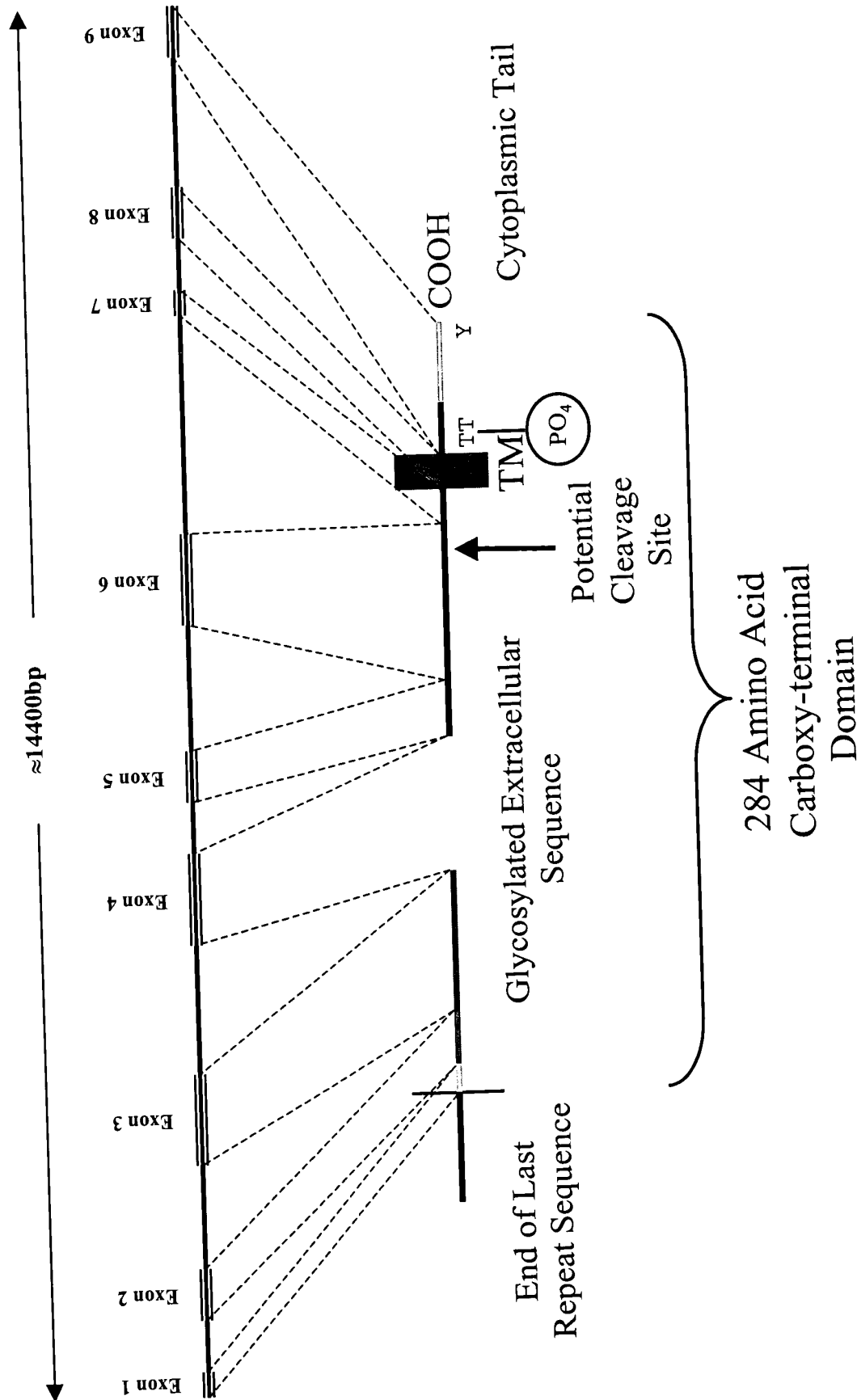


Figure 9A

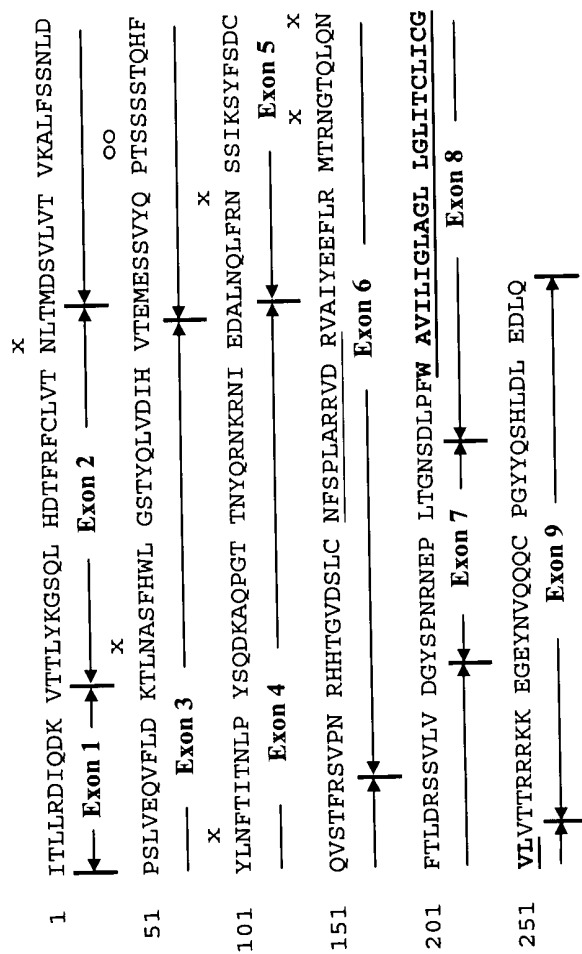


Figure 9B (SEQ ID NO: 300)



# Proposed Structure of CA125

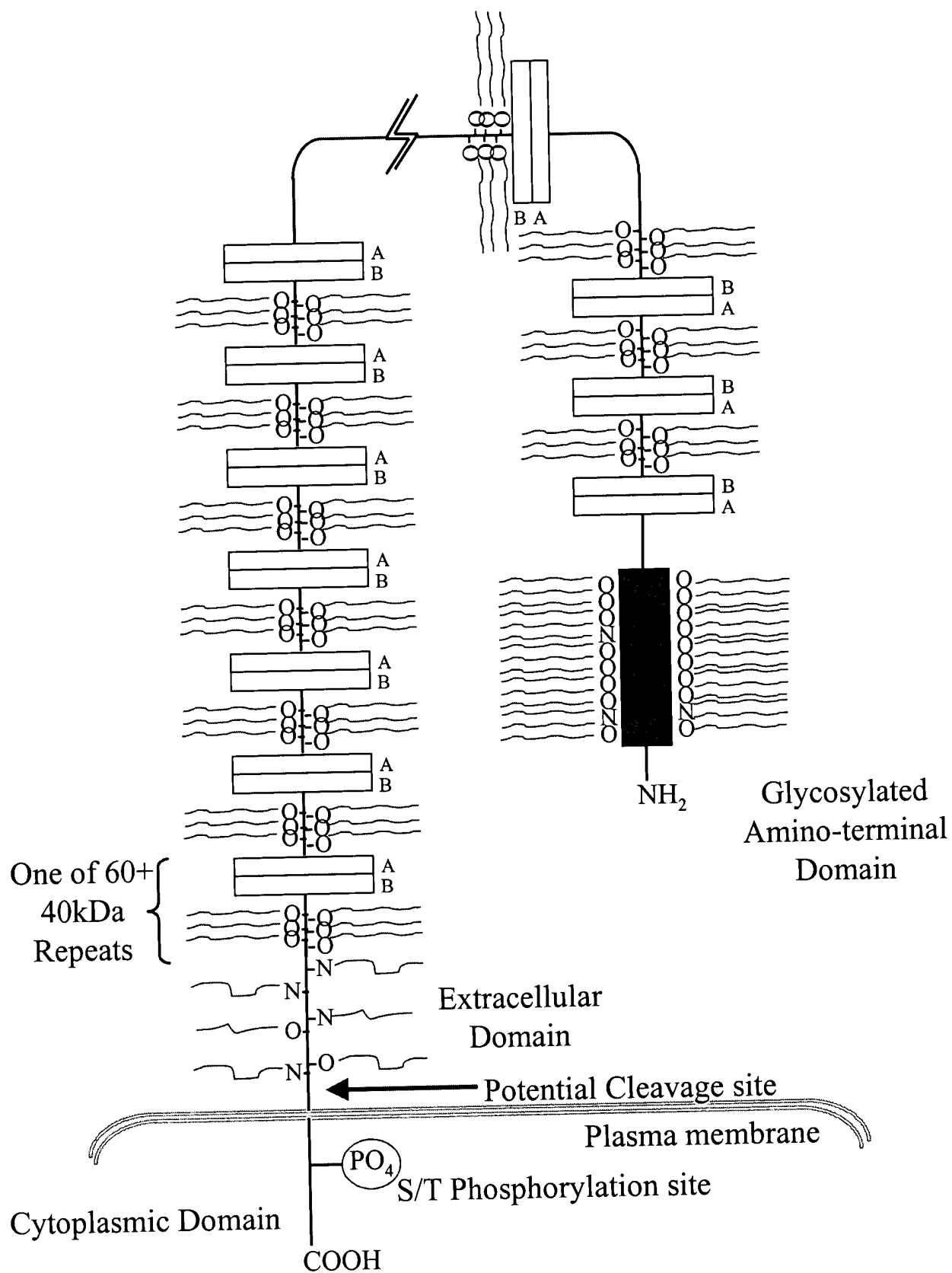


Figure 10